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Г	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
_	10/675,464	09/30/2003	Radek Oleksiewicz	D5174-CIP	5551	
	30409	7590 11/16/2004		EXAM	INER	
		INTERNATIONAL ENGINE INTELLECTUAL PROPERTY COMPAN 4201 WINFIELD ROAD			Y SOLIS, ERICK R	
	P.O. BOX 148			ART UNIT	PAPER NUMBER	
	WARRENVII	LLE, IL 60555	•	3747		

DATE MAILED: 11/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/675,464	OLEKSIEWICZ, RADEK				
Office Action Summary	Examiner	Art Unit				
	Erick R Solis	3747				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatio - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a repion. a reply within the statutory minimum of thirty (; eriod will apply and will expire SIX (6) MONTHestatute, cause the application to become ABAN	y be timely filed 30) days will be considered timely. IS from the mailing date of this communication. IDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	This action is non-final.					
3) Since this application is in condition for all		s, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-27 is/are pending in the application	ation.					
4a) Of the above claim(s) is/are with	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-27</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	nd/or election requirement.					
Application Papers						
9) The specification is objected to by the Exa	The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on 30 September 200	☑ The drawing(s) filed on <u>30 September 2003</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the co	orrection is required if the drawing(s)	is objected to. See 37 CFR 1.121(d).				
.11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached (Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But	ments have been received. ments have been received in App priority documents have been re	olication No				
* See the attached detailed Office action for a	a list of the certified copies not re	ceived.				
Attachment(s)	-					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94)	4) Interview Sur	nmary (PTO-413) Mail Date				
 Notice of Dialisperson's Patent Diawing Review (P10-94: B) ∑ Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date <u>9/30/03</u>. 		rmal Patent Application (PTO-152)				

Application/Control Number: 10/675,464

Art Unit: 3747

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 4 and 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In particular, in claims 4 and 6, " the electronic component " is vague, as to which of the two components reference is being made to.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ma in view of either of Izawa et al or Ohsaka et al. Ma teaches an internal combustion engine management system which has a pre-cycle warm up routine for a device such as glow plugs. Ma does not directly sense the temperature of the device to be heated up but rather makes an estimate of temperature based on the elapsed time from engine

Art Unit: 3747

shutoff to restart. Ma also states in the background that it is possible to directly sense the device to be heated up but that such temperature sensors are unreliable.

Both of Izawa et al and Ohsaka et al teach an overheat protection circuit which monitors the temperature of a driver (power MOSFET). If the temperature is higher than a predetermined amount the driver is stopped or limited from driving the load device. It would have been obvious to one of ordinary skill in the art to have used a driver temperature monitoring circuit as taught by either of Izawa et al or Ohsaka et al in pre-cycle warm-up device as taught by Ma because this would have provided a safety feauture for preventing the driver from "burning out" due to overheating. Furthermore, whether the temperature sensed is absolute or a differential is considered to be an obvious matter of design choice. The pre cycle warming up of fuel injectors is already known as disclosed by applicant's background of the invention and Ma's device could have been used for pre cycle warm up of injectors.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erick R Solis whose telephone number is (703) 308-2651. The examiner can normally be reached on Monday-Thursday.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

Erick R Solis Primary Examiner Art Unit 3747

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November 12, 2004